k-Fold (ross-Validation: The procedure has a single parameter called 12 that refers to the number of groups that a given data sample is to be split into. As such the procedur is called 12-fold cross validation.

This is, to use a limited sample in order to estimate how the model is expected to perform in general whon used to make predictions on data

not used during the training of the model.

Advantages; (i) simple to understand

(ii) Generally results in a less-biased or less optimistis estimate of the model skill than other methods, such as a simple train/test split.

The general procedure is as follows:

(i) shaffle the dataset vandomly.

(i) Split the dataset into k groups.

liii) For earl unique group:

(a): Take the group as a hold out or test data set

(b): Take the remaining groups as a training data set

(1): Fit a model on the training set and evaluate it on the test set

(d): Retain the evaluation soul and discord the model.

(iV). Summarize the skill of the model using the sample of model evaluation stores,